

Amendments to the Specification:

Please amend the specification as follows:

[0068] Redundancy can be designed into the HAN 10 with a bi-directional path. For example, when a node station 18 in the HAN 10 is interrupted, data flow can be re-routed such that each side of the photonic network interruption is self-contained. Hardware redundancy in the set-top box and in the transmit optical laser 42 and the receive optical detector 38 can be installed using the same principles as disclosed above. ~~Similar redundancy is accomplished through the use of dual counter rotating fiber optic cable 200. Because of the nature of knowledge inherent in the edge network access system Head End it is possible to effectively utilize the entire dual circuit bandwidth simultaneously (the system knows the low priority customer data segments). This negates the necessity for the 100% backup as utilized in classical SONET networks.~~